





IT Security Risk Management Policy V1.0

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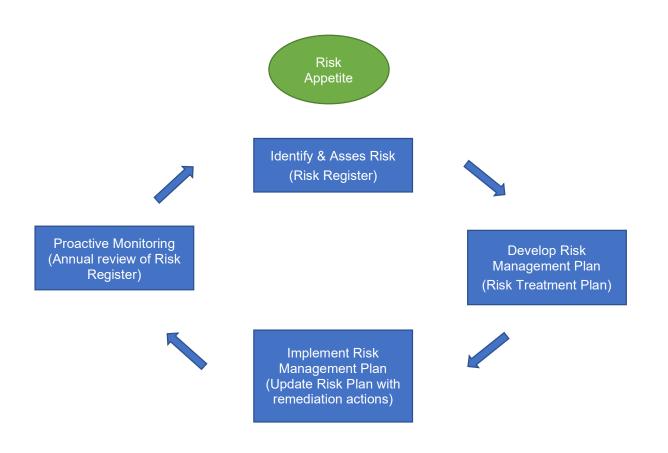


1. Introduction & Scope

All IT security controls are applied based on a risk assessment using probability verses likelihood to calculate the risk impact. This assessment is used to managed information security controls and ensure that Confidentiality, Integrity and Availability of systems are protected.

We will adopt ISO27005 Information Security Risk management to manage the IT security risks within J&EHall.

2. Risk management lifecycle



2.1. Document controls

The risk register is the main document and will list all known IT security risks, each risk will be identifiable by an individual reference number. A risk treatment plan will be created for any risks above the risk appetite.

The risk treatment plan must use the same identifiable reference from the risk register that it is creating remediating actions for, it is imperative that these correlate for auditing and tracking purposes.







2.2. Risk Scoring methodology (appetite)

We will be using the following risk matrix to calculate our risks. We will use semi quantitative analysis, where on occasions some form of values will be able to be used. We are using a 5x5 matrix as anything smaller would be too constrained and vague and would be detrimental, meaning most risks would end up in the Low risk category resulting in incorrect risk reading against appetite and no action being taken.

5 times in a week	Almost certain Has happened before		5	М	Н	н	VH	VH			
3 times in a week	Likely to happen	100 ure)	4	L	М	Н	Н	VH			
1 time in a week	Possible to happen	LIKELIHOOD (Exposure)	. 3	L	М	М	Н	Н			
0 times	Unlikely to happen	<u>۳</u>	. 2	L	L	М	М	Н			
0 times	Rare to happen		1	VL	L	L	L	М			
				1	2	3	4	5			
					Pro	Probability (Impact)					
			Downtime	<1hr	<4hrs (1/2day)	<8hrs (1day)	<16hrs (2day)	<32hrs (3days)			
			cost	£1,000	£5,000	£10,000	£40,000	£80,000			
			users affected	1	2<10	11<25	26<100	100+			
			Score								
	Very Low	-	1								
	Low		2<4								
	Medium		5<9								
	High		10<16								
	Very High		20<25								

3.0 Identify and Assess Risk

To analyze and identify IT security risks we will list known risks in a risk register. The risk register will provide a score and risk level, depending on the risk level depends on remediation options. This will assist with the creation our risk treatment plan.

		IT Security Ris	k List	IT Security Risk List										
					Probability	Likelihood	TO COMPANY							
Ref	Risk Event	Caused by	Resulting in	Countermeasure	(Impact)	(Exposure)	Risk score	Risk Level						
	Information Disclosure - personal, sensitive information released into	1. careless disposal not using correct waste	1) Fine from ICO (information Commissioners Office)	1) Sensative waste bins provided										
	public domain	bin	2) Damage to J&E Hall reputation resulting in loss of contracts (MOD)	2) Staff training takes place										
		2.Loss of equipment (or theft)		3) Devices have several security										
		3.Misuse of information unencrypted usb		functions enabled (password, vpn,	-		15	High						
1		pen		encrypted drives)	2	3	15	High						
		4. Sending to wrong person via email or												
		post												
		5.Leaving sensative information on desk												
	Information sharing control	1. Lack of access controls	1) Fine from ICO (information Commissioners Office)	1) Access controls in place for										
		2. Information disclosed to incorrect	2) Information security breaches	personal data										
		personnel	3) Reputational damage	2) File server data has folder access										
2		3. Information misused		permissions assigned	2	2	10	High						
				3) HR and Finance systems have										
				various access controls										
	Failure of physical or virtual server security to protect CIA Confidentiality,	1. Insuffcient security controls	1) Financial penalty	1) Panda is installed on all devices										
	Integrity, Avaliability	2. Insufficent event logs	2)Failure of IT Services	2) Only admins have access to										
			3) Performance issues with ICT services	these services										
3			4) Information Commissioners Office investigations which will	3) Event logs produced but not	3	2	6	Medium						
			require time and resource	looked frequently due to resource										

There are 4 outcomes when calculating risk, we will be using these ;

- Treat (resolve)
- Tolerate (accept)
- Transfer (Share)







• Terminate (Avoid)

When wording the risk assessment form, the following wording will be adopted.

 In the 'Risk Event' box, describe the risk, its cause and the resulting impact if it occurs. Do not use jargon and/or acronyms. The following guidance is provided:

	ee sections to scoping a risk: Risk) Event Trigger/Cause Impact/Consequence
	definition helps the user analyse the benefits and do-ability of the risks so that test merit are put into effect.
Typical phras	sing could be:
Threat of Failure to Lack of Uncertainty of Partnership v Development Opportunity t	t of which may affect
	e example of 'lack of resources' could be defined as:
slippa	of resources due to a reduction in external funding which may result in a ige in completion of the delivery plan and an inability to ensure day-to-day ory duties are met.'
Risk Event:	Loss of service X availability due to vulnerabilities being present in the platforms software (and not patched), resulting in users not be able to access a critical service, damaging ECC's reputation and potentially incurring fine

Any new project work or changes to original systems will also be risk assessed before approval. They will be submitted to the IT team by either a new scope of work order or by using a change form. IT will assess the risks using the risk assessment form shown below, and if necessary if the risk is high or very high IT will escalate to senior management approval, IT will then feedback to the requestor.

BUSI	NESS RISK ASSESSMENT													
RISK	ASSESSMENT COMPLETED BY:	Jamie Lovesey										DATE		
UNC	TION / SERVICE / TEAM:	π												
PROJ	ECT / PROGRAMME (if applicable):													
Risk Event, to include: Risk - the area of uncertainty in terms of t		f the threat	w period	Current Assessment of Risk			Risk Owner	Mitigation Approach	Mitigating Actions / Controls	w period	Control	Controlled Assessment of Risk		
No.	 cause / trigger - the event or situation that gives rise to the risk impact – the effect or impact the risk would have if it occurs 	evie	Current			Treat Tolerate		evie	Owner	Target				
			~	Likelihood	Impact	Risk Rating		Transfer Terminate		8		Likelihood	Impact	Risk Rating
1								tolerate			1 2 3 4			0
2						0		terminate			1 2 3 4			0







3.1 Develop the risk treatment plan

After analysing the IT security risks and necessary actions the risk treatment plan will be populated accordingly. An example of the Risk Treatment Plan is below. This will be shared with senior management if further authorisation or expense is to be occurred to resolve the risk.

Risk Treatment												
Improvement action	Rank	Score			Implementation cost		Status	Description	protect against	Accept or action needed	RAG Risk	Reviewed date
Require MFA for administrative roles	1	2/5		Low	Low	Azure Active Directory	Not completed	Requiring multi-factor authentication (MFA) for all administrative roles makes it harder for attackers to access accounts. Administrative roles have higher	Account Breach Elevation of Privilege			
Ensure all users can complete multi-factor authentication for secure access	12	3/5	Identity	High	High	Azure Active Directory	completed	Multi-factor authentication (MMA) helps protect divices and data that are are accessible to these users. Adding more authentication methods, such as the Microsoft Authenticators goor painon number, increases the level of protection if one factor is compromised. You have 275 out of 412 users registered and protected with MMA We have increased the security on 54 accounts so overall number should increase to (275) 454 =329	Password Cracking	Is shared accounts that don't send external emails disabled in AD on prem, so you cant login to o365 portal B Logins that don't have O365 email have been moved into new OU group on prem server they don't sync to AD in 365, so you cant login using o365 portal 21. Accounts not used have been deleted		

3.2 Implement Risk Management Plan

The Risk Treatment Plan will be used to track the decisions made to reduce the risk exposure, any remediation actions will only take place once authorisation has been approved by either IT or by senior management depending on the risk level. Updates will be provided to necessary personnel. All risks that have been treated will be updated in the Risk Register with their new risk score and status for future review and auditing.

3.3 Proactive monitoring of risk

Senior management and the IT security manager will assess the risk register annually and agree on the risk levels. If risk scores have increased and require action, the original risk assessment form will be reviewed and updated with any possible new remediation actions. The risk treatment plan will be updated to track any remediation actions. Once completed the risk register will be updated to reflect the new risk score.